

FIG. 1



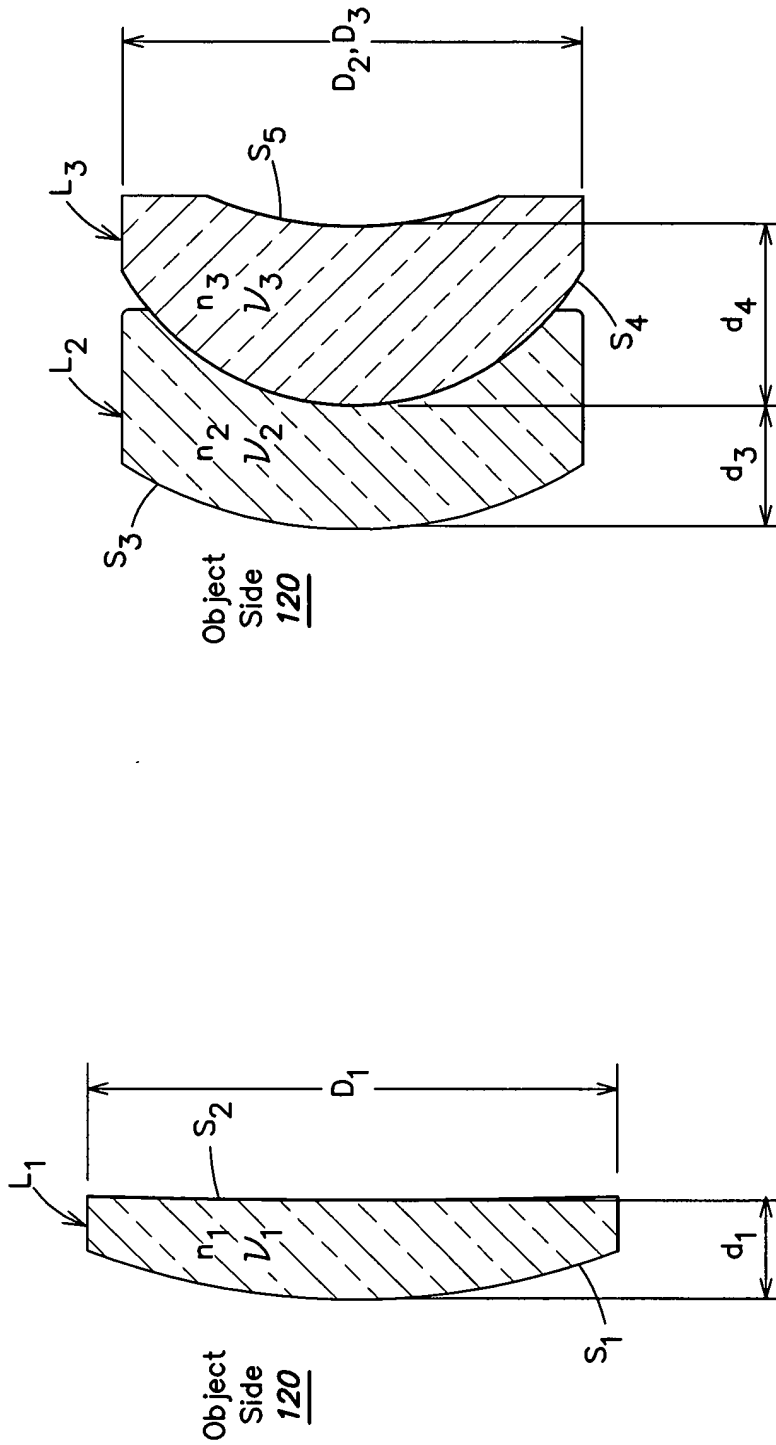


FIG. 2

FIG. 3



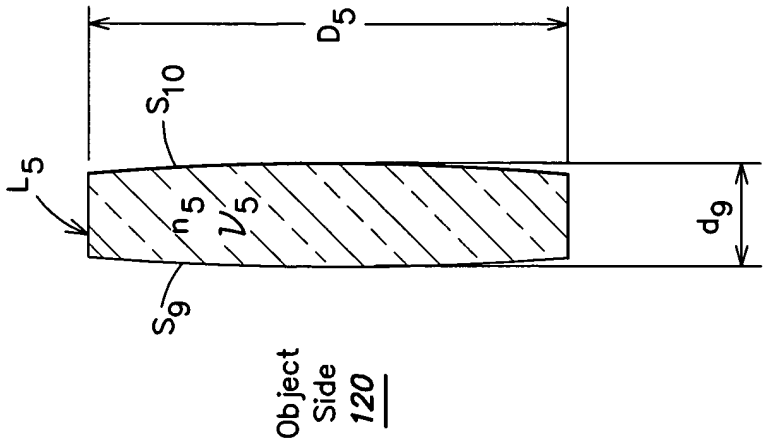


FIG. 5

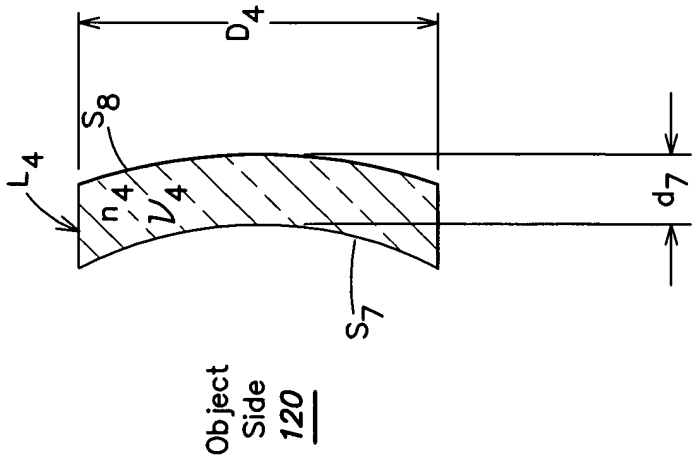
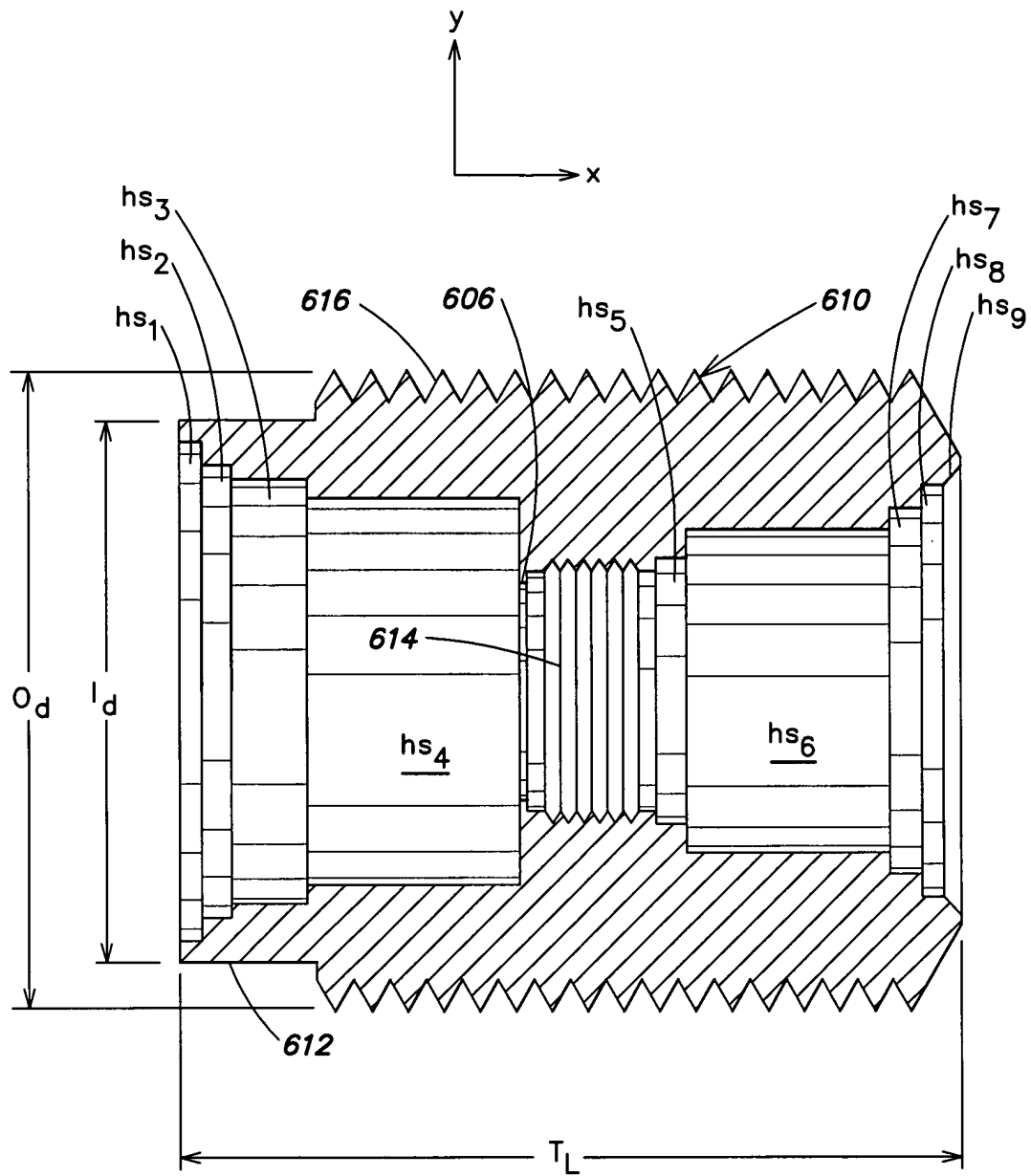


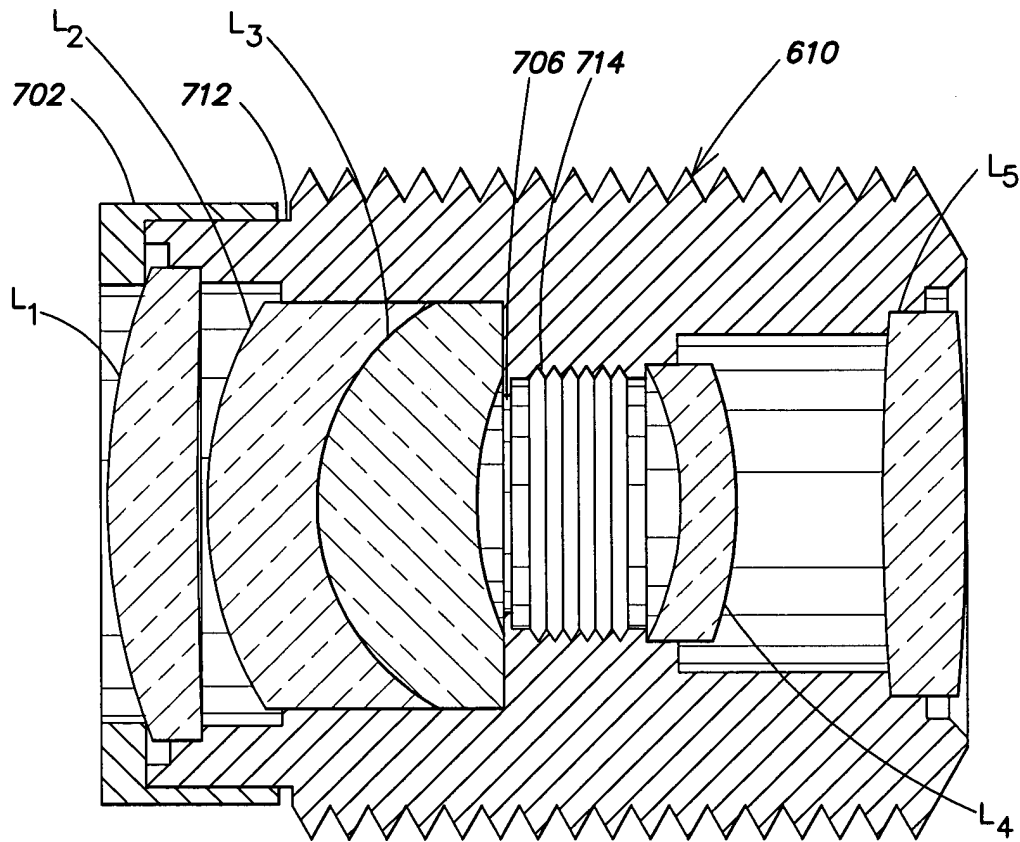
FIG. 4





**FIG. 6**





**FIG. 7**



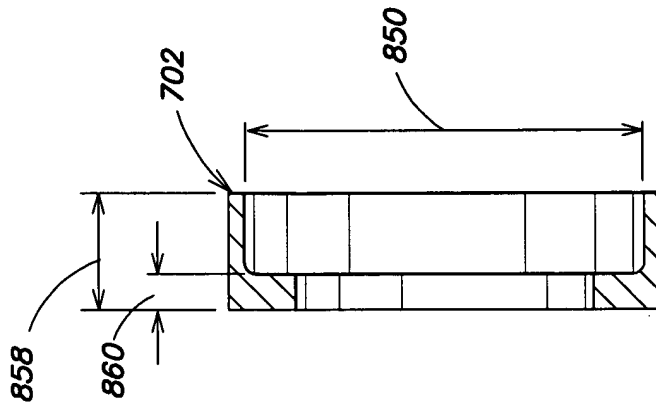


FIG. 8B

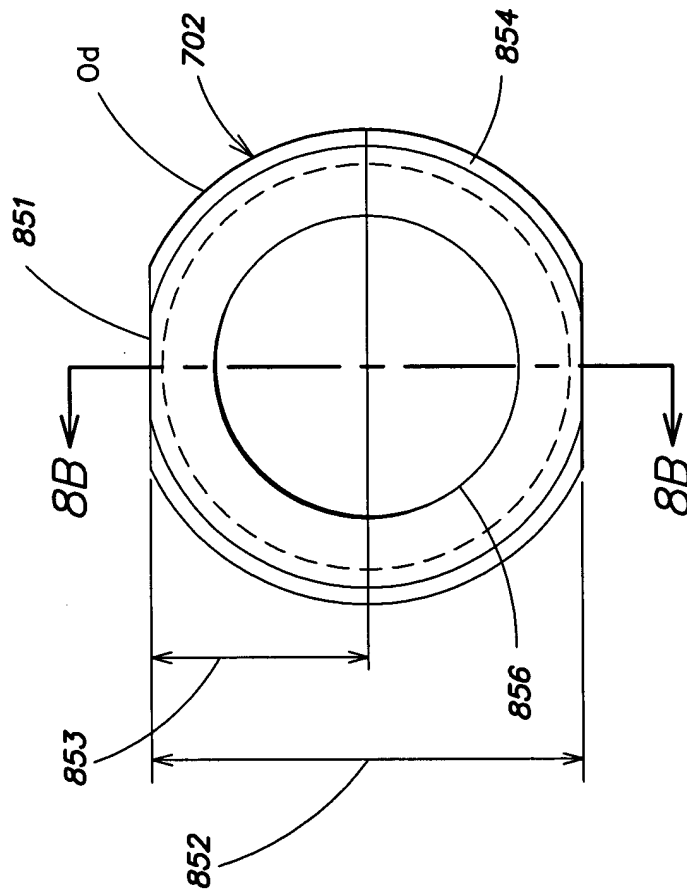


FIG. 8A



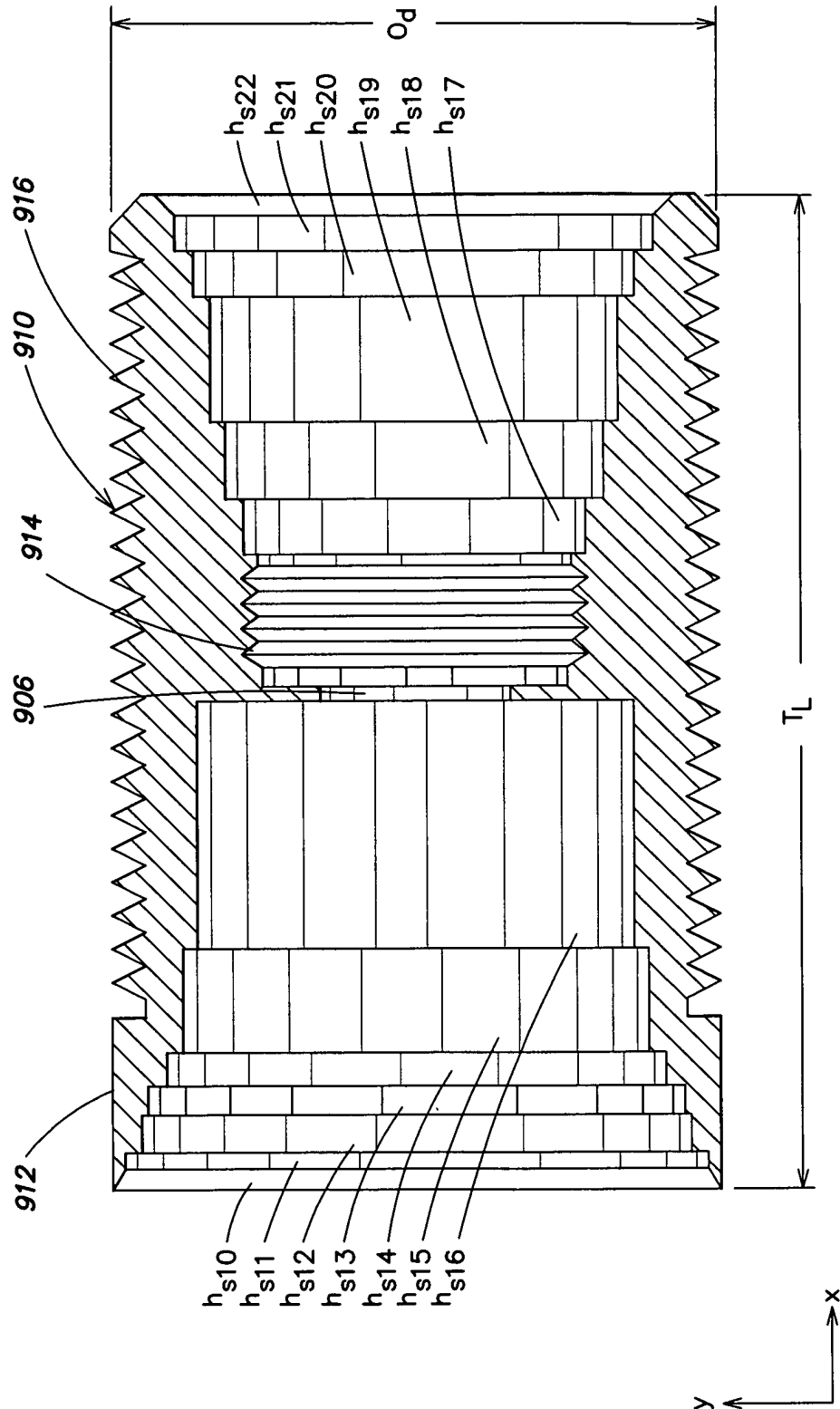
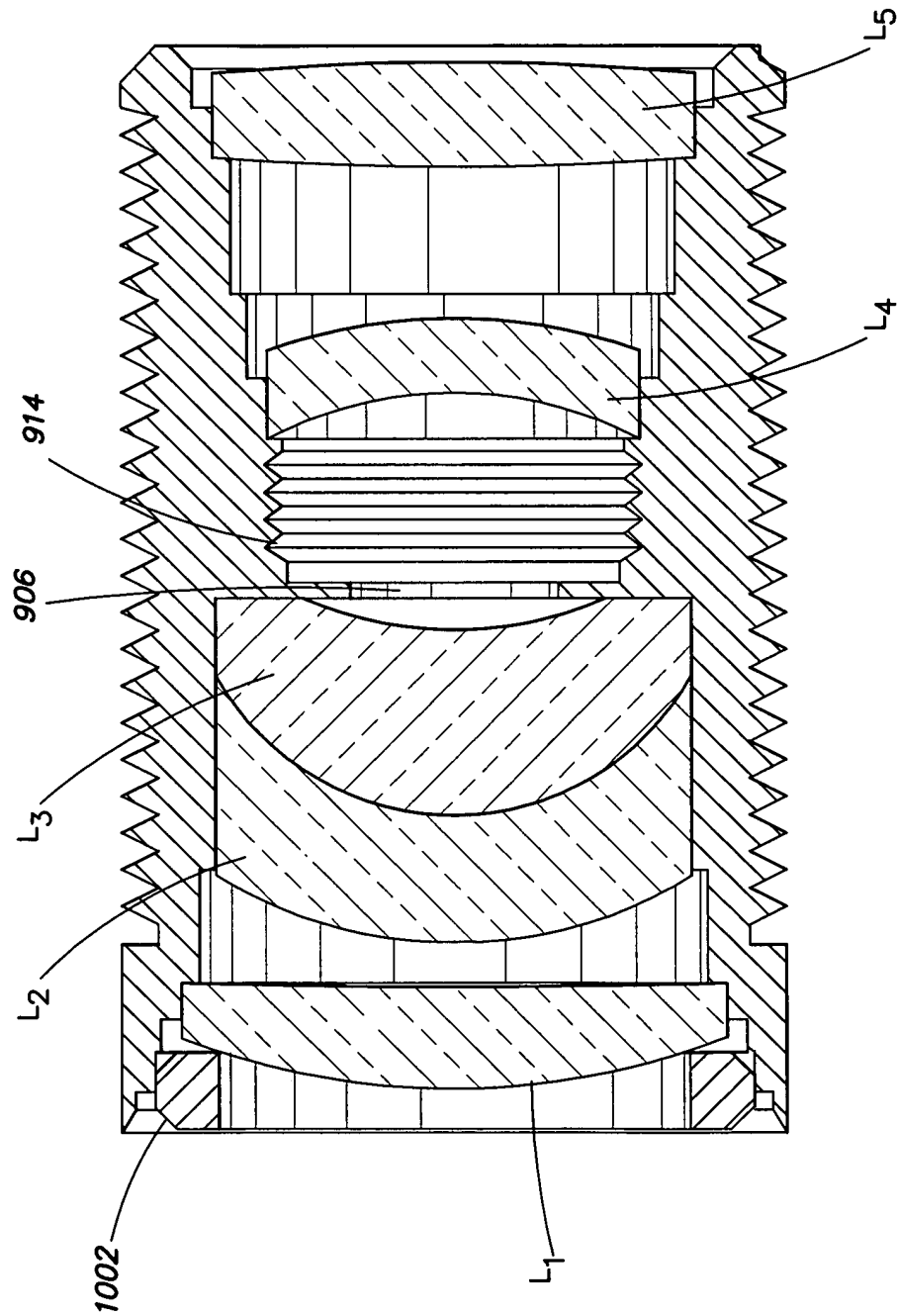


FIG. 9





*FIG. 10*



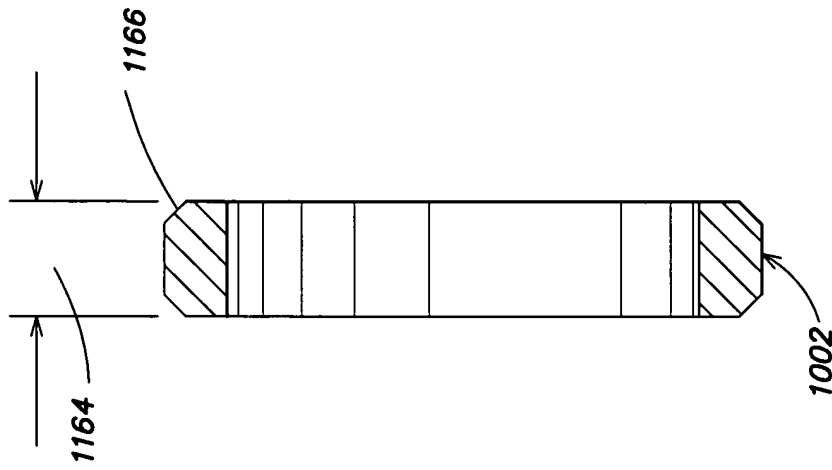


FIG. 11B

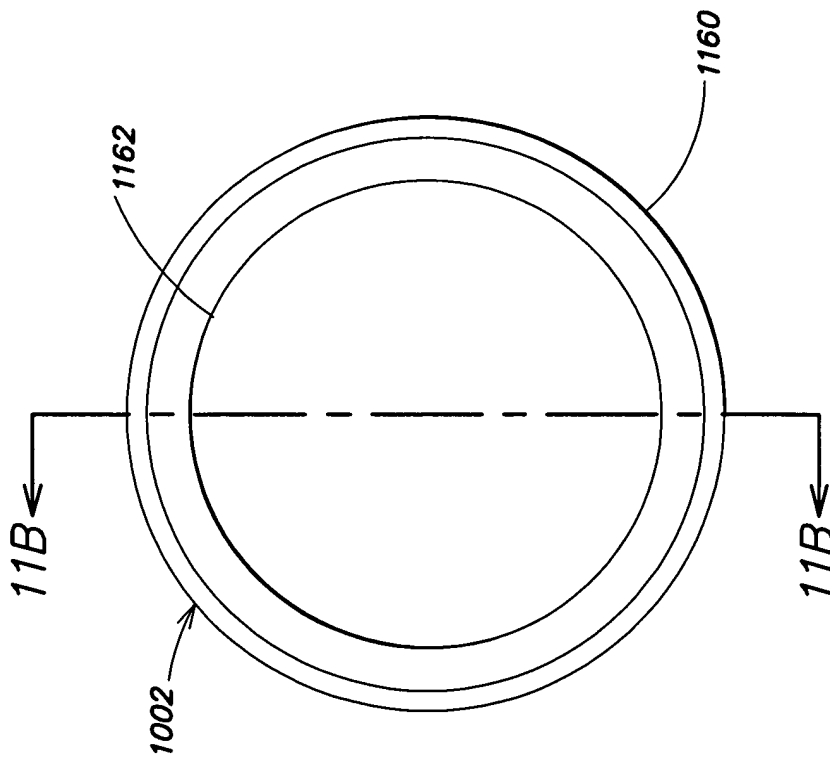


FIG. 11A



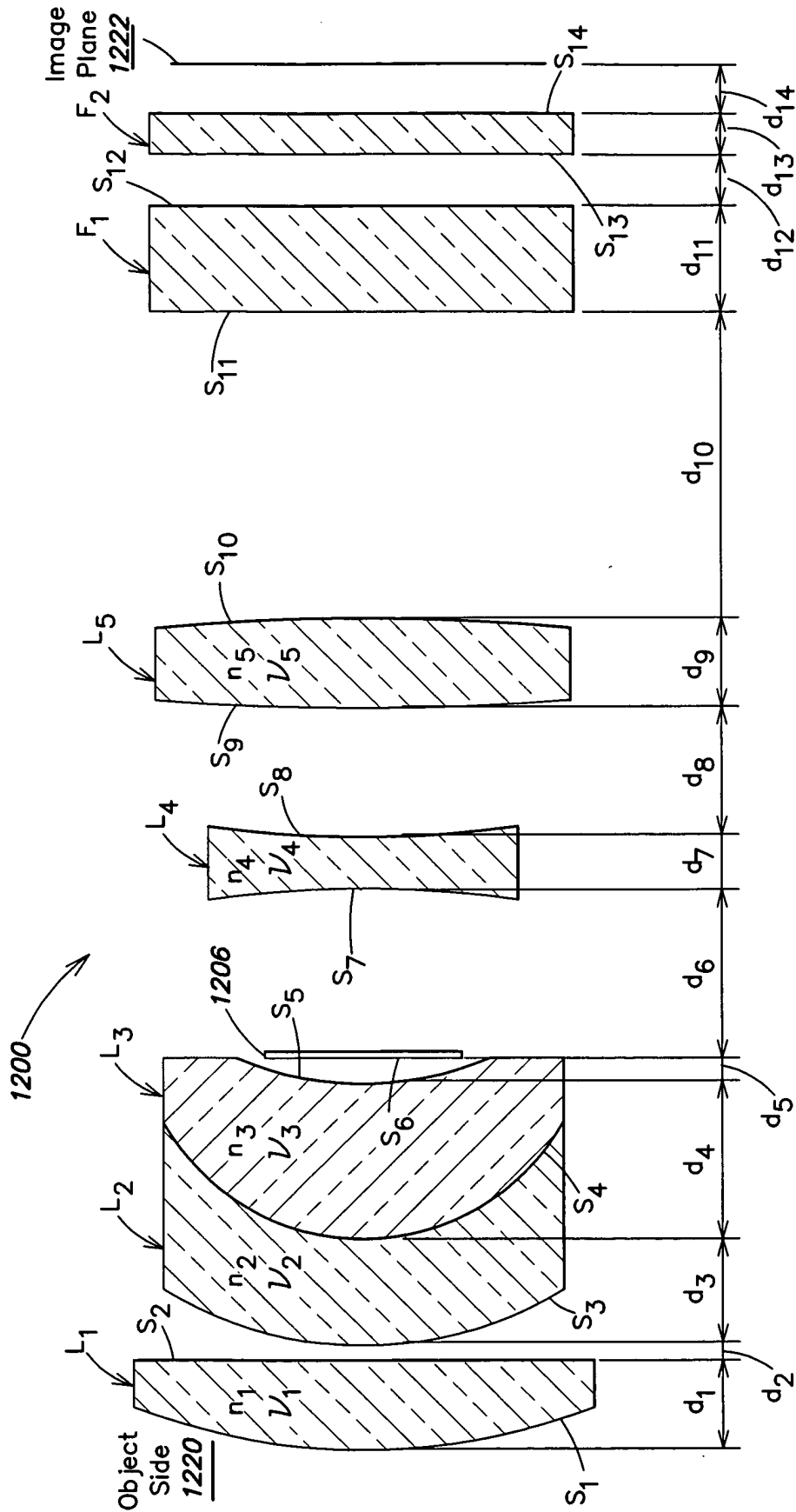


FIG. 12



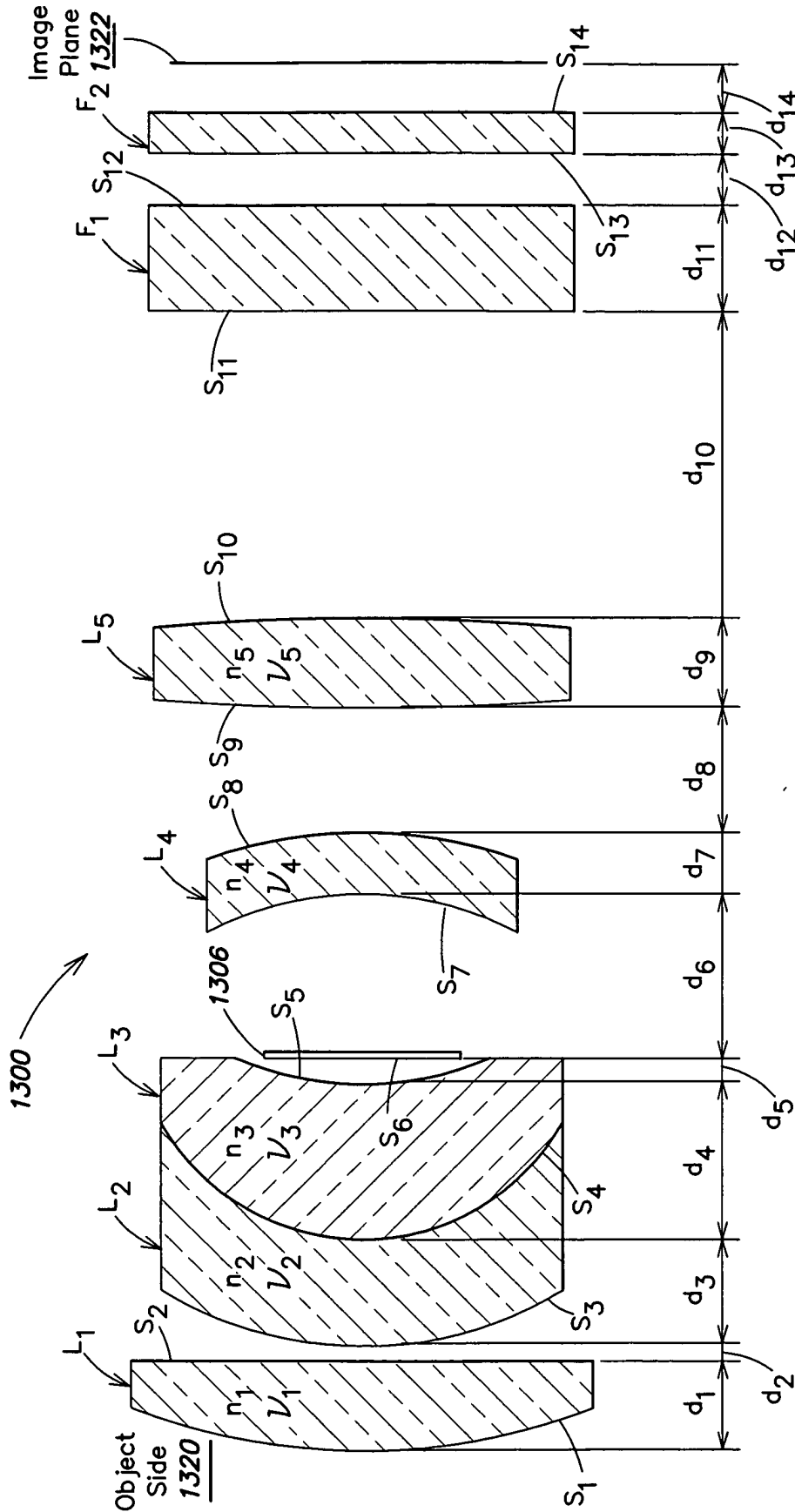


FIG. 13



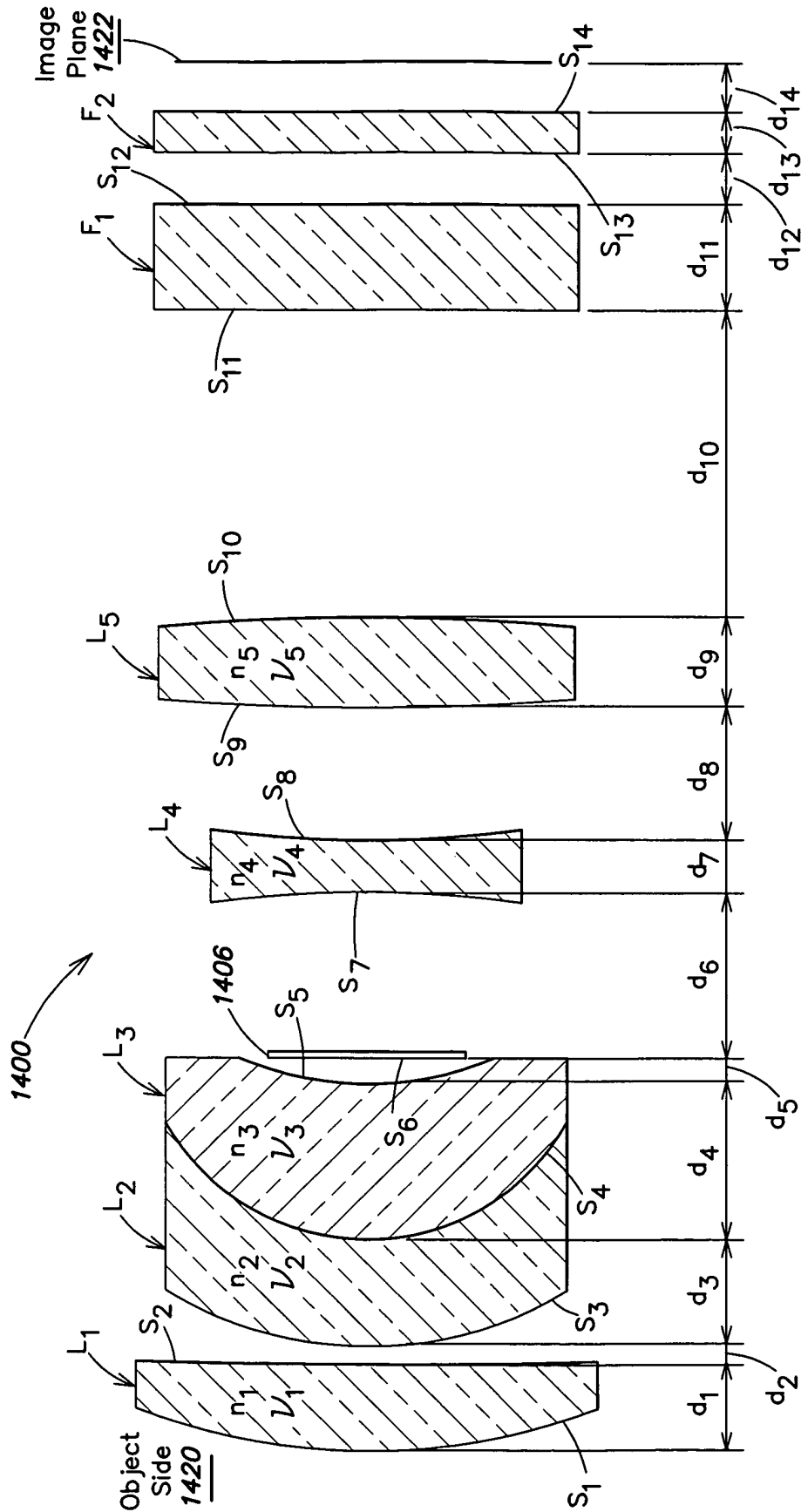


FIG. 14



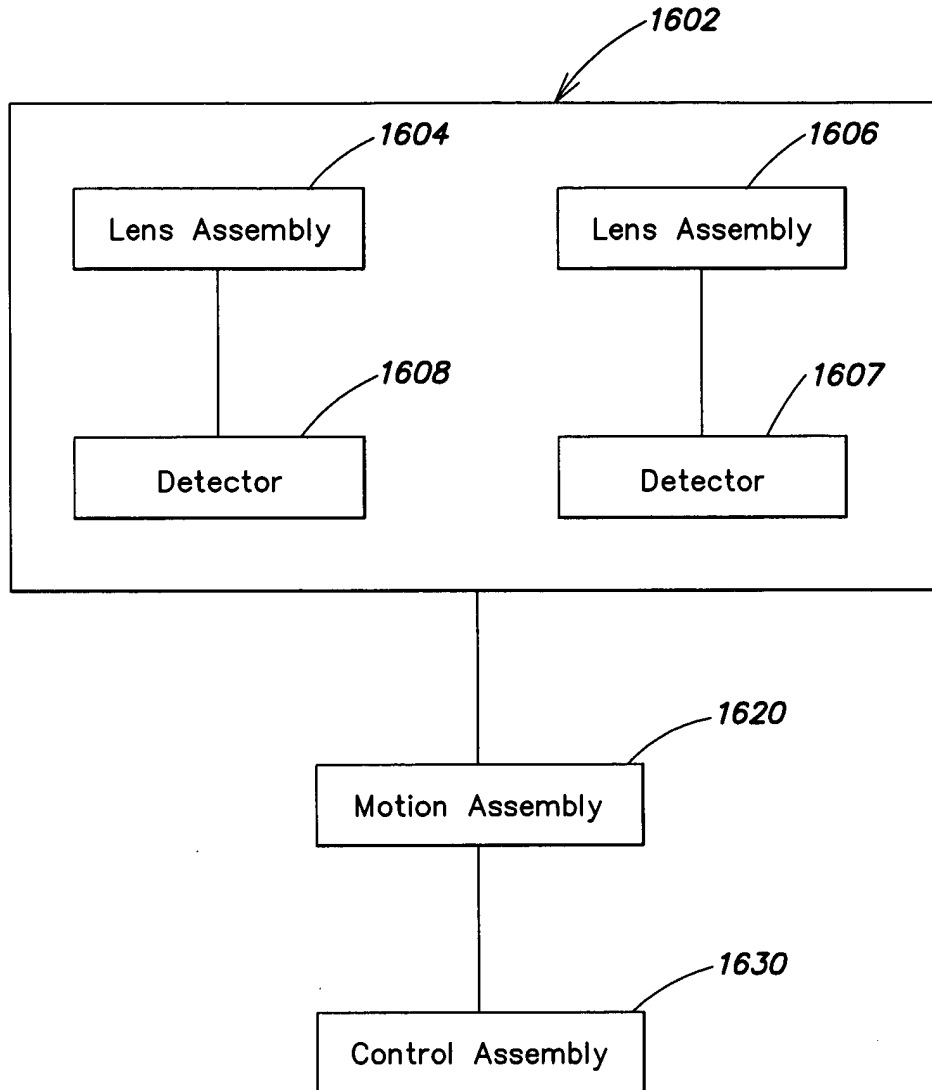
@Wavelength 0.5876 Microns  
Petzval Radius -704.0739

Seidel Aberration Coefficients in Waves:

| Surf      | W040      | W131      | W222      | W220      | W311      | W020       | W111      |
|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| S1        | 2.063646  | 1.180533  | 0.168834  | 1.737566  | 0.521143  | -2.221268  | -0.635351 |
| S2        | 0.185990  | -1.569347 | 3.310467  | -0.210552 | -6.094979 | -0.667380  | 2.815615  |
| S3        | 0.958762  | 0.674738  | 0.118713  | 3.889814  | 1.389634  | -10.712959 | -3.769676 |
| S4        | -1.116244 | -0.174950 | -0.006855 | -0.928469 | -0.073028 | 11.516959  | 0.902530  |
| S5        | -0.412209 | -1.371710 | -1.141160 | -4.812696 | -8.956968 | 2.121614   | 3.530049  |
| S6 (STOP) | 0.000000  | 0.000000  | 0.000000  | 0.000000  | 0.000000  | 0.000000   | 0.000000  |
| S7        | -3.401465 | 5.243140  | -2.020490 | -4.120822 | 3.954605  | 2.955132   | -2.277573 |
| S8        | 1.611063  | -3.049674 | 1.443226  | 3.261925  | -3.770335 | -2.366120  | 2.239483  |
| S9        | -0.020738 | 0.497832  | -2.987688 | 0.630448  | 10.363169 | 0.404717   | -4.857738 |
| S10       | 0.389379  | -1.507552 | 1.459192  | 0.630448  | -2.632830 | -1.196036  | 2.315337  |
| S11       | -0.077353 | 0.475245  | -0.729958 | 0.000000  | 1.121187  | 0.277620   | -0.852829 |
| S12       | 0.062114  | -0.381622 | 0.586157  | 0.000000  | -0.900314 | -0.222929  | 0.684822  |
| S13       | -0.038423 | 0.236066  | -0.362588 | 0.000000  | 0.556921  | 0.112778   | -0.346446 |
| S14       | 0.023231  | -0.142726 | 0.219222  | 0.000000  | -0.336717 | -0.068186  | 0.209462  |
| IMAGE     | 0.000000  | 0.000000  | 0.000000  | 0.000000  | 0.000000  | 0.000000   | 0.000000  |
| TOTAL     | 0.227751  | 0.109971  | 0.057072  | 0.077661  | -4.858511 | -0.066057  | -0.042314 |

FIG. 15





**FIG. 16**



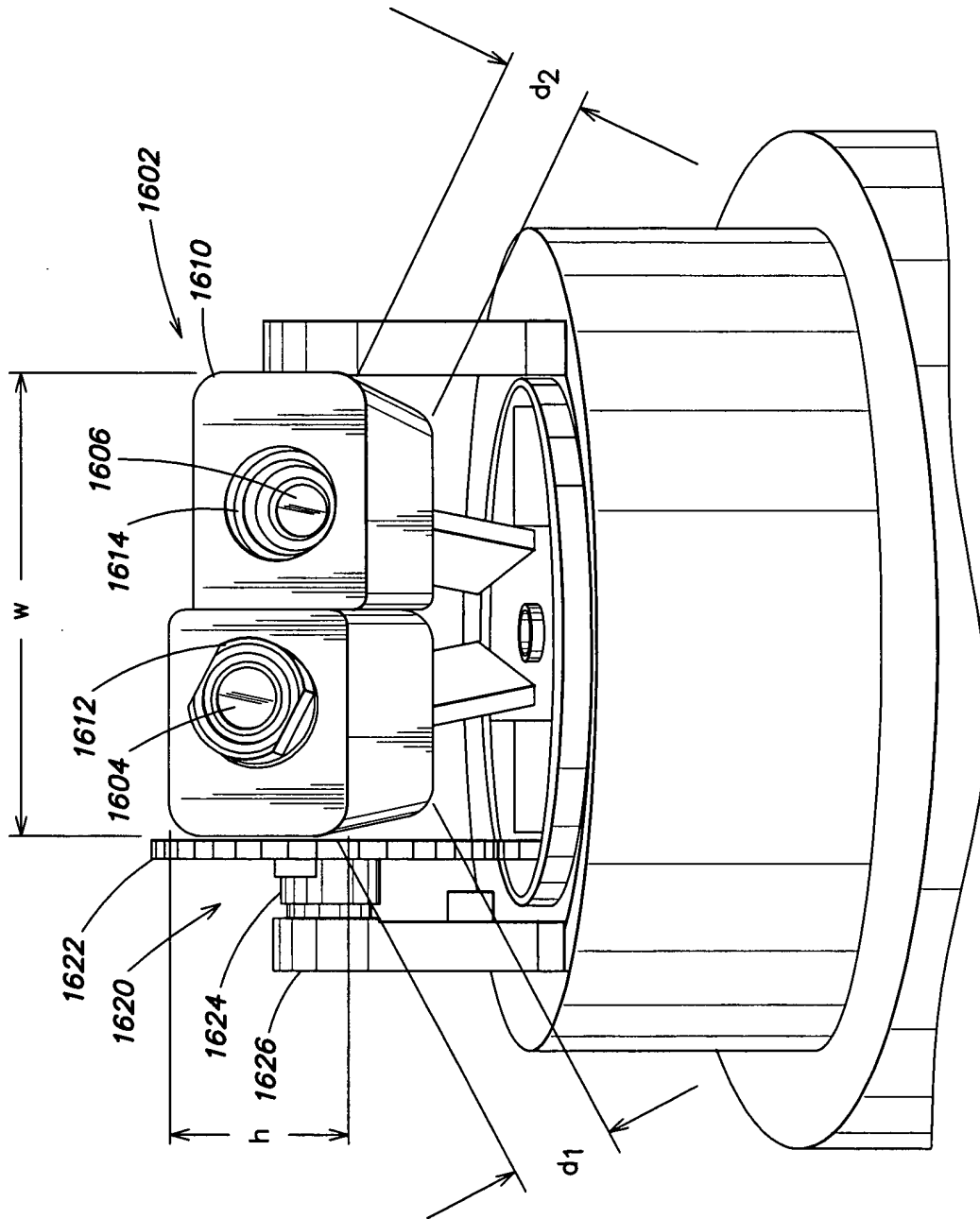


FIG. 17